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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 083847-0201

Applicant: Chad A. MIRKIN et al.
Title: PATTERNING MAGNETIC NANOSTRUCTURES
Appl. No.: 10/663,976
Filing Date: 09/17/2003
Examiner: Unassigned
Art Unit: 1751

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

September 27, 2004
Date

FOLEY & LARDNER LLP

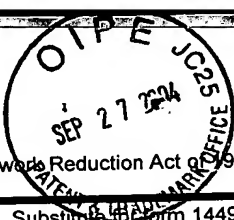
Customer Number: 23533

Telephone: (202) 672-5569

Facsimile: (202) 672-5399



J. Steven Rutt
Attorney for Applicant
Registration No. 40,153



MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute Form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: September 27, 2004

(use as many sheets as necessary)

Sheet 1 Of 3

Complete if Known

Application Number	10/663,976
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First Named Inventor	Chad A. MIRKIN et al.
Group Art Unit	1751
Examiner Name	Unassigned
Attorney Docket Number	083847-0201

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

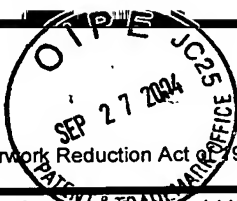
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	A1	SUN, et al., "Monodisperse FePt Nanoparticles and Ferromagnetic FePt Nanocrystal Superlattices," Science, 17 March 2000, pp. 1989-1992, Vol. 287.	
	A2	EDELSTEIN, et al., "The BARC Biosensor Applied to the Detection of Biological Warfare Agents," Biosensors & Bioelectronics, 2000, pp. 805-813, Vol. 14.	
	A3	XIA, et al., "Unconventional Methods for Fabricating and Patterning Nanostructures," Chemical Review, 1999, pp. 1823-1848, Vol. 99.	
	A4	FREEMAN, et al., "Advances in Magnetic Microscopy," Science, 16 November 2001, pp. 1484-1488, Vol. 294.	

Examiner
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Examiner Name	Unassigned
		Attorney Docket Number	083847-0201

Sheet 2 Of 3

NON PATENT LITERATURE DOCUMENTS			
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	A5	NEW, et al., "Submicron Patterning of Thin Cobalt Films for Magnetic Storage," Journal of Vacuum Science & Technology B, November/December 1994, pp. 3196-3201, Vol. 12, No. 6.	
	A6	O'GRADY, et al., "The Limits to Magnetic Recording - Media Considerations," Journal of Magnetism and Magnetic Materials 200, 1999, pp. 616-633.	
	A7	HYLTON, et al., "Preparation and Magnetic Properties of Epitaxial Barium Ferrite Thin Films on Sapphire with In-Plane, Uniaxial Anisotropy," Applied Physics Letters, 17 August 1992, pp. 867-869, Vol. 61, No. 7.	
	A8	PINER, et al., "Dip-Pen" Nanolithography, Science, 29 January 1999, pp. 661-663, Vol. 283.	
	A9	MAYNOR, et al., "Au "Ink" for AFM "Dip-Pen" Nanolithography," Langmuir, 2001, pp. 2575-2578, Vol. 17, No. 9.	
	A10	LI, et al., "Electrochemical AFM "Dip-Pen" Nanolithography," J. Am. Chem. Soc., 2001, pp. 2105-2106, Vol. 123.	
	A11	NOY, et al., "Fabrication of Luminescent Nanostructures and Polymer Nanowires Using Dip-Pen Nanolithography," Nano Letters, 2002, pp. 109-112, Vol. 2, No. 2.	
	A12	LIU, et al., "Arrays of Magnetic Nanoparticles Patterned via "Dip-Pen" Nanolithography," Advanced Materials, February 5, 2002, Vol. 14, No. 3.	
	A13	MCKENDRY, et al., "Creating Nanoscale Patterns of Dendrimers on Silicon Surfaces with Dip-Pen Nanolithography," Nano Letters, 2002, pp. 713-716, Vol. 2, No. 7.	
	A14	PORTER, et al., "Electroless Nanoparticle Film Deposition Compatible with Photolithography, Microcontact Printing, and Dip-Pen Nanolithography Patterning Technologies, Nano Letters, 2002, pp. 1369-1372, Vol. 2, No. 12.	

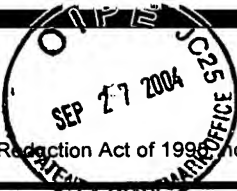
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	A15	AGARWAL, et al., "Dip-Pen Nanolithography in Tapping Mode," J. Am. Chem. Soc., 2003, pp. 580-583, Vol. 125.	
	A16	YANG, et al., "Hierarchically Ordered Oxides," Science, 18 December 1998, pp. 2244-2246, Vol. 282.	
	A17	ZHONG, et al., "Key Step in Synthesis of Ultrafine BaFe ₁₂ O ₁₉ by Sol-Gel Technique," Journal of Magnetism and Magnetic Materials, 1997, pp. 196-202, Vol. 168.	
	A18	BRIGGS, et al., "Ion and Neutral Spectroscopy," Practical Surface Analysis," Second Edition.	
	A19	DUVAL, et al., "Evidence of the Existence of Three Types of Species at the Quartz-Aqueous Solution Interface at pH 0-10: XPS Surface Group Quantification and Surface Complexation Modeling," J. Phys. Chem. B, 2002, pp. 2937-2945, Vol. 106.	
	A20	ZHANG, et al., "A MEMS Nanoplotter with High-Density Parallel Dip-Pen Nanolithography Probe Arrays," Nanotechnology, April 2002, pp. 212-217, Vol. 13, No. 2.	
	A21	CHOU, et al., "Nanolithographically Defined Magnetic Structures and Quantum Magnetic Disk (Invited)," J. Appl. Phys., 15 April 1996, Vol. 79, No. 8.	
	A22	ISHIKAWA, et al., "Magnetic and Structural Properties of Ba-ferrite Films Prepared by Sol-Gel Processing," J. Appl. Phys., 1 May 1996, pp. 7080-7083, Vol. 79, No. 9.	

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